

**QUANTITY WORKSHEET
CAPITAL COST ESTIMATES
CA HSRA PROGRAM EIR/EIS
Airports**

COST ELEMENTS			UNIT	UNIT PRICE	QUANTITIES			
Airport Cost					Oakland International (OAK)		Norman Y. Mineta San Jose International (SJC)	
Runway					Quantities	Cost	Quantities	Cost
1	Runway		ea	\$20,000,000.00	1	\$20,000,000	1	\$20,000,000
2	Site Preparation		Hectares	\$12,355	11.15	\$137,740	11.15	\$137,740
3	Navoids (CAT-1)		ea	\$2,000,000.00	1	\$2,000,000	1	\$2,000,000
Gates								
1	Passenger Terminal Facilities		m ²	\$4,305.56	26951.17	\$116,040,000	40765.85	\$175,520,000
2	Apron		ea	\$750,000	20	\$15,000,000	15	\$11,250,000
3	Apron Site Preparation		Hectares	\$12,355	8.36	\$103,305	6.27	\$77,479
4	Passenger Loading Bridge		ea	\$400,000	20	\$8,000,000	15	\$6,000,000
Parking								
1	Parking Spaces (All Structure Parking)		ea	\$15,000	150	\$2,250,000	1860	\$27,900,000
Access Roads								
1	Additional lanes on primary access roads		km	\$218,723	1.609	\$352,000	1.609	\$352,000
Demolition/Clearing <i>(Does not Include Internal Airport Improvements)</i>								
1	Open Land Clearing		Hectares	\$12,355	106.837	\$1,320,000	0	\$0
2	Clearing of Developed Land		Hectares	\$8,611,128	26.709	\$229,997,720	242.812	\$2,090,888,364
Utility Relocation								
1	Major Utility relocations - Dense Urban		Hectares	\$497,711	0	\$0	242.812	\$120,850,370
2	Major Utility relocations - Urban		Hectares	\$380,393	0	\$0	0	\$0
3	Major Utility relocations - Dense Suburban		Hectares	\$266,631	0	\$0	0	\$0
4	Major Utility relocations - Suburban		Hectares	\$76,434	26.709	\$2,041,508	0	\$0
5	Major Utility relocations - Undeveloped		Hectares	\$3,911	106.837	\$417,797	0	\$0
Right-of-Way								
1	Right-of-way - Dense Urban		Hectares	\$3,499,093	0	\$0	242.812	\$849,623,047
2	Right-of-way - Urban		Hectares	\$2,332,729	0	\$0	0.000	\$0
3	Right-of-way - Dense Suburban		Hectares	\$1,166,364	0	\$0	0.000	\$0
4	Right-of-way - Suburban		Hectares	\$408,227	26.709	\$10,903,494	0.000	\$0
5	Right-of-way - Undeveloped		Hectares	\$291,591	106.837	\$31,152,839	0.000	\$0
Environmental Mitigation								
	Environmental Mitigation		3% of Construction Cost			\$11,929,800		\$73,649,280
Program Implementation Costs								
	Program Implementation Costs		25.5% of Total Cost			\$115,169,730		\$861,453,240
Contingencies								
	Contingencies		25% of Total Cost			\$112,911,500		\$844,562,000
Total Construction						\$397,660,000		\$2,454,976,000
Total Construction and Right of Way						\$451,646,000		\$3,378,248,000
Grand Total						\$679,727,000		\$5,084,263,000

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COST ELEMENTS			UNIT	UNIT PRICE	QUANTITIES			
Airport Cost					Sacramento International (SMF)		Fresno Airport (FAT)	
Runway					Quantities	Cost	Quantities	Cost
1	Runway		ea	\$20,000,000.00	0	\$0	0	\$0
2	Site Preparation		Hectares	\$12,355	0	\$0	0	\$0
3	Navalds (CAT-1)		ea	\$2,000,000.00	0	\$0	0	\$0
Gates								
1	Passenger Terminal Facilities		m ²	\$4,305.56	9894.17	\$42,600,000	2415.48	\$10,400,000
2	Apron		ea	\$750,000	6	\$4,500,000	2	\$1,500,000
3	Apron Site Preparation		Hectares	\$12,355	2.51	\$30,992	0.84	\$10,331
4	Passenger Loading Bridge		ea	\$400,000	6	\$2,400,000	2	\$800,000
Parking								
1	Parking Spaces (All Structure Parking)		ea	\$15,000	4340	\$65,100,000	0	\$0
Access Roads								
1	Additional lanes on primary access roads		km	\$218,723	1.609	\$352,000	0	\$0
Demolition/Clearing <i>(Does not Include Internal Airport Improvements)</i>								
1	Open Land Clearing		Hectares	\$12,355	299.469	\$3,700,000	0	\$0
2	Clearing of Developed Land		Hectares	\$8,611,128	0	\$0	0	\$0
Utility Relocation								
1	Major Utility relocations - Dense Urban		Hectares	\$497,711	0.000	\$0	0	\$0
2	Major Utility relocations - Urban		Hectares	\$380,393	0.000	\$0	0	\$0
3	Major Utility relocations - Dense Suburban		Hectares	\$266,631	0.000	\$0	0	\$0
4	Major Utility relocations - Suburban		Hectares	\$76,434	0.000	\$0	0	\$0
5	Major Utility relocations - Undeveloped		Hectares	\$3,911	299.469	\$1,171,098	0	\$0
Right-of-Way								
1	Right-of-way - Dense Urban		Hectares	\$3,499,093	0.000	\$0	0	\$0
2	Right-of-way - Urban		Hectares	\$2,332,729	0.000	\$0	0	\$0
3	Right-of-way - Dense Suburban		Hectares	\$1,166,364	0.000	\$0	0	\$0
4	Right-of-way - Suburban		Hectares	\$408,227	29.947	\$12,225,129	0	\$0
5	Right-of-way - Undeveloped		Hectares	\$291,591	269.522	\$78,590,116	0	\$0
Environmental Mitigation								
	Environmental Mitigation		3% of Construction Cost			\$3,595,620		\$381,300
Program Implementation Costs								
	Program Implementation Costs		25.5% of Total Cost			\$54,637,575		\$3,338,460
Contingencies								
	Contingencies		25% of Total Cost			\$53,566,250		\$3,273,000
Total Construction						\$119,854,000		\$12,710,000
Total Construction and Right of Way						\$214,265,000		\$13,092,000
Grand Total						\$322,469,000		\$19,703,000

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COST ELEMENTS			UNIT	UNIT PRICE	QUANTITIES			
Airport Cost					Burbank-Glendale Pasadena (BUR)		Ontario International (ONT)	
Runway					Quantities	Cost	Quantities	Cost
1	Runway		ea	\$20,000,000.00	1	\$20,000,000	1	\$20,000,000
2	Site Preparation		Hectares	\$12,355	11.15	\$137,740	11.15	\$137,740
3	Navoids (CAT-1)		ea	\$2,000,000.00	1	\$2,000,000	1	\$2,000,000
Gates								
1	Passenger Terminal Facilities		m ²	\$4,305.56	31540.58	\$135,800,000	24526.40	\$105,600,000
2	Apron		ea	\$750,000	19	\$14,250,000	8	\$6,000,000
3	Apron Site Preparation		Hectares	\$12,355	7.94	\$98,140	3.34	\$41,322
4	Passenger Loading Bridge		ea	\$400,000	19	\$7,600,000	8	\$3,200,000
Parking								
1	Parking Spaces (All Structure Parking)		ea	\$15,000	6930	\$103,950,000	3540	\$53,100,000
Access Roads								
1	Additional lanes on primary access roads		km	\$218,723	1.609	\$352,000	3.219	\$704,000
Demolition/Clearing <i>(Does not Include Internal Airport Improvements)</i>								
1	Open Land Clearing		Hectares	\$12,355	0.00	\$0	119.79	\$1,480,000
2	Clearing of Developed Land		Hectares	\$8,611,128	161.875	\$1,393,925,576	179.681	\$1,547,257,389
Utility Relocation								
1	Major Utility relocations - Dense Urban		Hectares	\$497,711	161.875	\$80,566,913	0	\$0
2	Major Utility relocations - Urban		Hectares	\$380,393	0	\$0	179.681	\$68,349,516
3	Major Utility relocations - Dense Suburban		Hectares	\$266,631	0	\$0	0	\$0
4	Major Utility relocations - Suburban		Hectares	\$76,434	0	\$0	0	\$0
5	Major Utility relocations - Undeveloped		Hectares	\$3,911	0	\$0	119.79	\$468,439
Right-of-Way								
1	Right-of-way - Dense Urban		Hectares	\$3,499,093	161.875	\$566,415,364	0	\$0
2	Right-of-way - Urban		Hectares	\$2,332,729	0	\$0	179.681	\$419,147,370
3	Right-of-way - Dense Suburban		Hectares	\$1,166,364	0	\$0	0	\$0
4	Right-of-way - Suburban		Hectares	\$408,227	0	\$0	0	\$0
5	Right-of-way - Undeveloped		Hectares	\$291,591	0	\$0	119.79	\$34,928,940
Environmental Mitigation								
	Environmental Mitigation		3% of Construction Cost			\$52,760,400		\$54,250,140
Program Implementation Costs								
	Program Implementation Costs		25.5% of Total Cost			\$606,353,280		\$590,749,575
Contingencies								
	Contingencies		25% of Total Cost			\$594,464,000		\$579,166,250
Total Construction						\$1,758,680,000		\$1,808,338,000
Total Construction and Right of Way						\$2,377,856,000		\$2,316,665,000
Grand Total						\$3,578,673,000		\$3,486,581,000

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COST ELEMENTS			UNIT	UNIT PRICE	QUANTITIES			
Airport Cost					Long Beach Daugherty Field (LGB)		San Diego International (SAN)	
Runway					Quantities	Cost	Quantities	Cost
1	Runway		ea	\$20,000,000.00	0	\$0	1	\$20,000,000
2	Site Preparation		Hectares	\$12,355	0	\$0	11.15	\$137,740
3	Navoids (CAT-1)		ea	\$2,000,000.00	0	\$0	1	\$2,000,000
Gates								
1	Passenger Terminal Facilities		m ²	\$4,305.56	25083.82	\$108,000,000	27870.912	\$120,000,000
2	Apron		ea	\$750,000	9	\$6,750,000	12	\$9,000,000
3	Apron Site Preparation		Hectares	\$12,355	3.76	\$46,487	5.02	\$61,983
4	Passenger Loading Bridge		ea	\$400,000	9	\$3,600,000	12	\$4,800,000
Parking								
1	Parking Spaces (All Structure Parking)		ea	\$15,000	3430	\$51,450,000	2250	\$33,750,000
Access Roads								
1	Additional lanes on primary access roads		km	\$218,723	1.609	\$352,000	1.609	\$352,000
Demolition/Clearing <i>(Does not Include Internal Airport Improvements)</i>								
1	Open Land Clearing		Hectares	\$12,355	0	\$0	32.37	\$400,000
2	Clearing of Developed Land		Hectares	\$8,611,128	0	\$0	129.500	\$1,115,140,461
Utility Relocation								
1	Major Utility relocations - Dense Urban		Hectares	\$497,711	0	\$0	0	\$0
2	Major Utility relocations - Urban		Hectares	\$380,393	0	\$0	129.500	\$49,260,913
3	Major Utility relocations - Dense Suburban		Hectares	\$266,631	0	\$0	0	\$0
4	Major Utility relocations - Suburban		Hectares	\$76,434	0	\$0	32.37	\$2,474,555
5	Major Utility relocations - Undeveloped		Hectares	\$3,911	0	\$0	0	\$0
Right-of-Way								
1	Right-of-way - Dense Urban		Hectares	\$3,499,093	0	\$0	0	\$0
2	Right-of-way - Urban		Hectares	\$2,332,729	0	\$0	129.500	\$302,088,194
3	Right-of-way - Dense Suburban		Hectares	\$1,166,364	0	\$0	0	\$0
4	Right-of-way - Suburban		Hectares	\$408,227	0	\$0	32.37	\$13,216,356
5	Right-of-way - Undeveloped		Hectares	\$291,591	0	\$0	0	\$0
Environmental Mitigation								
	Environmental Mitigation		3% of Construction Cost			\$5,105,940		\$40,721,340
Program Implementation Costs								
	Program Implementation Costs		25.5% of Total Cost			\$44,702,520		\$436,918,020
Contingencies								
	Contingencies		25% of Total Cost			\$43,826,000		\$428,351,000
Total Construction						\$170,198,000		\$1,357,378,000
Total Construction and Right of Way						\$175,304,000		\$1,713,404,000
Grand Total						\$263,833,000		\$2,578,673,000